| The state of | ·      | 74     |         |              |
|--------------|--------|--------|---------|--------------|
| 9,00         |        | 7.06 w | Sappas  | ASSIFICATION |
| 1c586 U      | 04/27, | 26.000 | Class 🖓 | ISSUE CLA    |





| 0.5. UTILITY Paterit Applic | alion        |
|-----------------------------|--------------|
| 0.I.P.E.                    | PATENT DATE  |
| SCANNED & Q'ALL MU          | MAR 1 9 2002 |
| SCANNED SCANDING            | <u> </u>     |

| <del>,</del>   | 4   |  | 12/              | 2                                     | O.I.P.E.   |                | PATENT I      | DATE                                  |                   |                      |
|--|---|--|------------------|---------------------------------------|--|----------------|---------------|---------------------------------------|-------------------|----------------------|
| 16   | :   |  |                  |                                       |  | , n.           | WAR 1         | 9 2002                                |                   |                      |
| ν.   |   |  | SCAN             | NED 🤧                                 | Q.A-1  | mu             | <del></del>   | · · · · · · · · · · · · · · · · · · · | <del></del>       |                      |
| programme on a   | phone why against a month of months for a victoria of | . ,                                      | ~                |                                       | معافلاتها الراد  |                |               |                                       | -                 |                      |
| [{ [¶ ] } } .  | CATION NO.  | CONT/PRIC                                | OR CLASS         | <b>3</b> ·                            | SUBCLASS   | ART UN         | IT E          | XAMINER                               |                   |                      |
| 09   | 9/559348  | F  | 206              | ļ                                     | 726.000  | 3728           | 3             | 21                                    | M                 |                      |
| 2  | hiserus   |  | +                | <u>-</u>                              |  |                |               |                                       |                   |                      |
| N N  | lanabu Isl  | nikawa                                   | UBU              |                                       |  |                |               |                                       |                   |                      |
| APPLICAN   |   |  |                  |                                       |  |                |               |                                       |                   |                      |
|  | ,   |  | •                |                                       |  |                |               |                                       |                   |                      |
| Take T   | ray for :   | semicon                                  | ductor           | intes                                 | grated ci  | rcuit          | device        |                                       | ·                 |                      |
| 1  |   |  |                  |                                       |  |                |               |                                       |                   |                      |
|  | c 1 A. 11 A   | 1  |                  |                                       |  |                |               |                                       |                   | PTO-2040<br>12/99    |
|  | 916410  | 4  |                  |                                       |  |                |               |                                       |                   |                      |
| (0-  |   |  |                  |                                       |  |                |               |                                       |                   |                      |
|  | ad interpreted to the subjects                        |  |                  |                                       |  |                | <del></del>   |                                       |                   |                      |
| - 1. E   |   |  | ISS              | UING                                  | CLASSIF  | FICATIO        | NC            |                                       |                   | Į                    |
|  | ORIGINAL  |  |                  |                                       |  | CROSS F        | REFERENC      | E(S)                                  |                   |                      |
| CL   | ASS   | SUBCLASS                                 | , C              | LASS                                  | SUB  | <del></del>    | <del></del>   | ASS PER E                             | I OCK)            |                      |
| <i>-</i>   | E 135 a   | 26.000                                   | <del></del>      | <u> </u>                              |  | <del></del>    |               |                                       | ,LOOK,            |                      |
| h ===  | NATIONAL CLA  |  |                  | 000                                   |  | 564.000        | }             | <del>}</del>                          |                   |                      |
| 865  |   | <del></del>                              |                  | ··· <b>·</b>                          |  | <del></del>    | <u> </u>      | }                                     |                   |                      |
| 567  | リー 87   | 00                                       |                  | <u>.</u>                              |  |                | <del> </del>  | <del> </del>                          |                   |                      |
| 2 27 V   |   | <del></del>                              |                  | · · · · · · · · · · · · · · · · · · · |  |                |               |                                       |                   |                      |
|  |   |  |                  |                                       | - 11   |                | <del> </del>  |                                       | ,                 |                      |
|  |   |  |                  |                                       | <u> </u>   |                |               | <u> </u>                              |                   |                      |
|  |   | <del></del>                              |                  | <del></del>                           |  |                | Continued     | on Issue Slip                         | Inside File Ja    | cket                 |
|  |   | 2-13                                     | -Da              | ormal E                               | <u> Orawings (                                    </u> | 1 shts) s      | set           | 4-6                                   | 17-00             | <u> </u>             |
|  | ERMINAL   | 30 000                                   |                  | DF                                    | RAWINGS  | •              |               | CLAIMS                                | ALLOWE            | D                    |
|  | ISCLAIMER   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | Sheets D         | wg. F                                 | Figs. Drwg.  | Print Fig.     | Total         | Claims                                | Print Clain       | n for O.G.           |
|  |   |  |                  |                                       |  | -              | }             | 15                                    | - 1               |                      |
| · Significant of the state of t | - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1               | **                                       |                  |                                       |  | · 6, 8         | <del>-</del>  |                                       |                   |                      |
|  | erm of this patent<br>ent to                          | (date)                                   |                  | ·                                     |  |                | NOTIC         | CE OF ALLO                            | OWANCE M          | AILED                |
| ·  | disclaimed.   | (32.0)                                   | (A               | ssistant Exan                         | niner)   | (Date)         |               |                                       |                   | }                    |
|  | term of this pater                                    |  |                  | <b>'.</b>                             |  |                |               | 11-7-                                 | - 121             | }                    |
|  | d beyond the exp<br>itent. No                         | iration date                             |                  |                                       | _  |                |               |                                       |                   |                      |
|  | i   |  | •                | Shu                                   | in the   | ,              |               |                                       | E FEE             | Ch                   |
|  | - 1   | -  |                  | -<br>(                                | LYUNKA   | 10/ 4 /0       | i             | int Due                               | Date              |                      |
|  | <u> </u>  | <u></u>                                  | , (              | rimary Exam                           | iner)  | (Date)         | 41280         | 000                                   | 1-27              | 5-021                |
| The A  | erminalmon  | ths of                                   | (1               | 11.                                   | 11.1   | ///            |               | SUE BATO                              | CH NUMBI          | ER                   |
| •  | t have been discl                                     |  |                  | AB                                    | May)   | 12/15/         | <b>]</b> /    | 0.                                    | •                 | ì                    |
| WARNIN   | G:  |  | (Lbga(           | Instru <b>me</b> nts E                | Examiner) U  | (Date)         | Ų             | <u> </u>                              |                   |                      |
| The informa  | ation disclosed here                                  | in may be resti                          | ricted. Unauth   | orized discl                          | osure may be prol                                      | hibited by the | United States | Code Title 35,                        | Sections 122,     | 181 and 368.         |
| Possession   | ontside the 0.2. Pa                                   | itent & Tradema                          | ark Office is re | stricted to a                         | uthorized employe                                      | es and contra  | ctors only.   |                                       |                   |                      |
| Form <b>PTO-43</b><br>(Rev. 6/99)  | • <b>••</b>   |  |                  | •                                     | FI   | LED WITH       |               | (CRF)                                 | FICHE             | CD-ROM               |
|  | il .  |  |                  |                                       |  | ं असात         | Carrie        | (Atte                                 | ached in pocket o | n right Inside flap) |
|  | } •   |  |                  |                                       |  |                | •             |                                       | 1404<br>          |                      |

Issue Fee

| POSITION                                | INITIALS | ID NO. | DATE   |
|---|----------|--------|--------|
| Ú                                       |          |        | 5/6/10 |
| FEE DETERMINATION                       | 14.6     |        | 790    |
| O.I.P.E. CLASSIFIER                     |          | 111    | 5/1/   |
| FORMALITY REVIEW                        | DW       | 72376  | 6-24-0 |
| RESPONSE FORMALITY REVIEW               |          |        |        |
| 11201 01102 1 0111111111111111111111111 |          |        |        |

#### INDEX OF CLAIMS

| Rejected                     | N Non-elected  |
|------------------------------|----------------|
| =                            | I Interference |
| — (Through numeral) Canceled | A Appeal       |
| ÷ Restricted                 | O Objected     |

|                      |                   |                |                         |          |  |              | ÷            |              |              |              | <b>.</b> .    | • • • • •    |
|----------------------|-------------------|----------------|-------------------------|----------|--|--------------|--------------|--------------|--------------|--------------|---------------|--------------|
|                      |                   | 1              |                         |          |  |              | <u> </u>     |              |              |              |               |              |
|                      | Clau              | _              | J                       |          |  |              | Dat          | e<br>T       |              | - [          |               |              |
|                      | _                 | Original       | 10/31/1                 | 2        | 10/6/01  | ļ            |              |              |              |              |               |              |
|                      | Fınal             | <u>ق</u> ا،    | I                       | T        | 0  |              |              | }            |              |              |               |              |
| į                    | 1 (               | ă              | J                       | 1        | =  |              |              |              | _            | _            | 十             | $\neg$       |
| •                    |                   | 2              | Ť                       |          |  |              | •            |              |              | _            | 1             | $\neg$       |
|                      | 2                 | 3              | 1                       | 1        | -  |              |              |              |              |              |               |              |
|                      | 3                 | 4              | $\Box$                  | 1        | 1  |              | <u> </u>     |              |              |              |               |              |
| - The second         | 4                 | 5              |                         |          | 1  |              |              |              |              |              |               |              |
|                      | 5                 | 6              |                         |          | _  |              |              |              |              |              |               |              |
| -2                   | 6                 | 7              | $\downarrow \downarrow$ | _}       |  |              | <u> </u>     | <u> </u>     |              | ·            | $\rightarrow$ |              |
|                      | 1                 | 8              | <b>₩</b>                | _}       | -  |              |              |              |              |              | -             |              |
| Time!                | 2 74 56 7 8 8 6 1 | 9<br> 0<br> 11 | Y                       |          | -  | -            |              | <del> </del> |              |              |               |              |
| ###<br>##            | 1                 | 11             |                         |          |  | -            |              | <del> </del> |              |              |               |              |
|                      | 11                | 12             |                         |          | -+   |              | <u> </u>     | -            |              |              |               |              |
|                      | 12                | 12)<br>13      | )                       |          |  |              |              | <u> </u>     |              |              |               |              |
| <b>.</b>             | 13                | 14             |                         |          |  |              |              |              | ļ            |              |               |              |
|                      | 13                | 15             |                         | J        | J  |              |              |              |              |              |               |              |
|                      | 15                | 16             |                         | Ý        | 2  | <u> </u>     |              | <u> </u>     |              |              |               |              |
|                      |                   | 16<br>17<br>18 | -                       |          |  | ļ            | ┞-           |              | _            |              |               |              |
|                      | +                 |                |                         | <u> </u> | ļ  | -            | ļ            | -            | ļ            | ļ            |               |              |
| , 2223 <u>.</u><br>1 | 2                 | 19             |                         | -        |  | -            | <del> </del> | -            | <del> </del> | -            |               |              |
|                      |                   | 20             |                         |          | ļ  | -            | -            |              |              |              |               |              |
|                      | 1/                | 21             |                         |          |  | <del> </del> | ┼            | ╂            |              |              |               |              |
|                      |                   | 22             |                         |          | ├  | ┼            | ┼            |              | -            | _            |               | <br>         |
|                      | -                 | 24             |                         |          |  | -            | -            | -            | <u> </u>     | -            |               |              |
|                      |                   | 25             |                         | <u> </u> | -  | +            | -            | +            | +            | <del> </del> | ļ <u>-</u>    | <del> </del> |
|                      |                   | 26             |                         |          | -  | +            | +            | $\top$       | +            |              |               |              |
| Ì                    |                   | 27             |                         |          | <del>                                     </del> | 十            | 1            |              |              |              |               |              |
|                      |                   | 28             |                         |          |  |              |              |              |              |              | ,             |              |
| )                    |                   | 29             |                         |          |  |              |              |              |              | 1            |               |              |
|                      |                   | 30             |                         |          |  |              |              |              |              | 1            |               |              |
|                      |                   | 31             |                         |          | ļ  |              |              |              | <u> </u>     | 1_           | _             | <u> </u>     |
|                      |                   | 32             |                         |          | -  | -            | -            | -            |              |              |               |              |
|                      |                   | 33             |                         |          |  | -            | +            | -            | -            |              | -             | -            |
|                      | -                 | 34<br>35       |                         | -        | 1  | -            | +            |              |              | -            | -             | <del> </del> |
|                      |                   | 36             | <del> </del>            | -        | +  | +            | -            | +            | +            | +            | +             | -            |
|                      | }                 | 37             | <del> </del>            |          | -  | -            | +            | +-           | +            | +            |               | -            |
|                      | <u> </u>          | 38             | <del> </del>            | 1        | †  | +-           | +            | -            | +            |              |               | 1            |
|                      |                   | 39             | $\vdash$                | 1        | 1  |              | <b>†</b>     |              | T            |              |               |              |
|                      |                   | 40             |                         |          |  | 1            |              |              |              |              |               |              |
|                      |                   | 41             |                         |          |  |              |              |              |              |              |               |              |
|                      |                   | 42             |                         |          |  |              |              |              |              |              |               |              |
| <b>-</b> 5           |                   | 43             | <del></del>             |          | <u> </u>   |              |              |              | ļ            |              | <u> </u>      |              |
| 1                    |                   | 44             | _                       |          | 1_   | 1            |              |              | _            |              | ļ             |              |
|                      |                   | 45             | +                       | _        | -  | -            | -            | -            | _            | -            | 1             | -            |
|                      |                   | 46             | +                       | <u> </u> | <u> </u>   | -            | <u>  ·</u>   |              | +-           | -            | 1             | -            |
|                      | ļ                 | 47             |                         | <u> </u> |  | +            | -            |              |              | +            | <u> </u>      | -            |
|                      |                   | 48             | +                       | +-       | -  | +-           | +            | +-           | +-           | +-           | +             | +-           |
|                      | -                 | 50             | <del></del> -           | +        | <del> </del>                                     | +            | +            | -            | +-           | +-           | -             | -            |
|                      | L                 | 130            | <u> </u>                |          | Щ.   | <del>-</del> |              |              |              | 1            | <u> </u>      | Ь.           |

Thi Po:

Form (Rev.

| Cla      | im          |              |          |  | -            |          | at           | e                |  |                 |          |                  |
|----------|-------------|--------------|----------|--|--------------|----------|--------------|------------------|--|-----------------|----------|------------------|
|          |             | Ţ            |          |  | T            | \        |              |                  |  | Ī               |          |                  |
| _        | Original    |              |          |  |              |          |              |                  |  |                 |          |                  |
| Final    | ΙĎ.         |              |          | ı  |              |          |              |                  |  |                 |          |                  |
| _        | 51          | _            |          |  | T            | - -      | _            | •                |  | $\dagger$       | +        |                  |
|          | 52          | -+           |          |  | <del> </del> | +        |              |                  | <del>                                     </del> | ╁               | +-       | 1 1              |
|          | 53          | $\dashv$     | -        |  | +            | +        |              |                  | <del>                                     </del> |                 | +        | +                |
|          | 54          |              | -        | ļ <u>.</u>                                       | +            |          |              |                  | -  | <del> </del>    | +-       |                  |
|          | 55          |              |          |  | <del> </del> | +        |              |                  | ļ  | -               | ╁        |                  |
|          | <del></del> | _            |          | _  | 1            | +        |              |                  | -  | +-              | -        | -                |
|          | 56          |              |          | <del>                                     </del> | +-           | +        |              |                  | <del> </del>                                     | +               |          |                  |
|          | 57          |              |          |  | +-           | +        |              | <u> </u>         |  | +               | +        | -                |
|          | 58          |              |          | -  | +            | $\dashv$ |              | <u> </u>         | ļ <u>-</u>                                       | +-              | +        | <u> </u>         |
|          | 59          |              |          | <del>                                     </del> |              | _        |              | <u> </u>         | -  | +               | -        | -                |
| <u></u>  | 60          |              |          | ļ  | _            | -        |              |                  | ┼  | -               | +-       |                  |
|          | 61          |              |          | ļ  | $\perp$      |          |              | <u> </u>         | <del> </del>                                     | _               | 1        | <del> </del>     |
|          | 62          |              |          | ļ  | $\perp$      | _        |              | <u> </u>         | ļ  | 1               | -        | _                |
|          | 63          |              |          | <u> </u>   |              | _        |              | <u> </u>         |  | ļ               |          |                  |
|          | 64          |              |          |  |              | _        |              |                  |  |                 |          |                  |
|          | 65          | ,            |          |  |              |          |              |                  |  | 1.              |          |                  |
|          | 66          |              |          |  |              |          |              |                  |  | 1               |          |                  |
|          | 67          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 68          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 69          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 70          |              |          |  |              |          |              | 1                |  |                 |          |                  |
|          | 71          |              |          | +  | -            | -        | _            | +                | _  |                 | +        | -                |
|          | 72          |              | -        | +  | +            | 137      | -            | 1                | -  |                 |          |                  |
|          | 73          |              |          | 1  | +            |          |              | -                | -  | 1               | +        |                  |
| -        | 74          |              |          | +  |              |          |              | +                | <del> </del>                                     |                 | +-       |                  |
|          | 75          |              | $\vdash$ | +-   | +            |          |              | -                | +  | +               |          | <del></del>      |
| -        | 1           | -            |          | -  | -            | -        |              | +                | -  | +               |          |                  |
|          | 76<br>77    |              | -        | +  |              |          |              | +                |  | +               | $\dashv$ |                  |
| -        |             |              | -        | -  | _            |          |              | +                |  | +-              | $\dashv$ |                  |
| <u> </u> | 78          |              | -        | -  | +            |          |              | +-               | -  |                 | $\dashv$ |                  |
| <u> </u> | 79          |              | —        |  |              |          |              | -                |  | _               | $\perp$  |                  |
| _        | 80          |              | ↓_       | _ _  |              | _ 、      | !<br>!       | ╀.               |  |                 | _        |                  |
| L        | 81          |              |          |  |              |          | _            | <br><del> </del> |  | _               | _        |                  |
|          | 82          |              | <u> </u> |  |              |          |              | $\perp$          |  |                 |          |                  |
|          | 83          |              | <u> </u> | $\perp$  |              |          |              | 1_               |  | _               | $\perp$  |                  |
|          | 84          |              |          |  |              |          |              |                  |  |                 | $\perp$  |                  |
|          | 85          |              |          |  |              |          |              |                  |  |                 |          | ,                |
|          | 86          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 87          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 88          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 89          |              |          |  |              |          |              | 1                |  |                 |          |                  |
|          | 90          |              | T        | 1  | $\neg$       |          |              | $\top$           |  |                 |          |                  |
| -        | 91          | -            | +        | +  | $\dashv$     |          | -            | +                | +-   |                 |          | <del>-  </del>   |
| $\vdash$ | 92          | -            | +-       | +-   | +            |          | -            |                  | +  | <del>-+</del> - |          |                  |
| -        | 93          | -            | +        | +  | +            |          | <del> </del> | -                |  | -               | -+       | <del>-   -</del> |
| -        |             | <del> </del> | +        | +  | $\dashv$     |          | +-           | +                |  | -               |          |                  |
| -        | 94          | _            | -        | $\bot$   | _            |          | <del> </del> | -                |  | +               |          |                  |
| -        | 95          |              |          | $\perp$  | 1            |          | —            | +                |  |                 | _        |                  |
| _        | 96          |              | _        |  | _            |          | ļ            | +                |  |                 |          |                  |
|          | 97          |              |          |  |              |          |              |                  |  |                 |          |                  |
|          | 98          |              |          | _  |              |          | <u> </u>     |                  |  |                 |          |                  |
| L.       | 99          |              |          | _  | $\perp$      |          | _            | $\perp$          |  |                 |          |                  |
|          | 100         | K            |          |  | - [          |          |              |                  |  |                 |          |                  |

| Final | Ouginal 101 |              |               |           |              |   | Di           |                  |                |          |               |           |   |             |           | $\neg$       |
|-------|-------------|--------------|---------------|-----------|--------------|---|--------------|------------------|----------------|----------|---------------|-----------|---|-------------|-----------|--------------|
| Final | Original    |              | Ì             |           | •            |   | <u></u>      | 316              | <del>-</del> _ |          |               |           |   | <del></del> |           | _            |
|       | 101         |              |               |           |              |   |              |                  |                |          | i             |           |   |             |           |              |
|       |             |              |               |           |              |   |              |                  |                | 1        |               | _         |   |             | _         |              |
|       | 102         | +            |               |           | +            |   |              | $\dashv$         |                | +        |               | <u> </u>  |   |             |           | -            |
|       | 104         | 1            |               |           | +            |   |              | _                |                | †        |               |           |   |             |           |              |
|       | 105         | $\downarrow$ |               |           | $\downarrow$ |   | -            | -                |                | -        |               | _         | _ |             | L         | _            |
|       | 106<br>107  | $\dashv$     | <del>  </del> |           | +            |   | $\vdash$     |                  |                | $\dashv$ |               | -         |   |             |           | _            |
|       | 108         |              |               |           |              |   |              |                  |                | 1        | _             | I         |   |             |           |              |
|       | 109         | $\dashv$     |               |           | -            |   |              |                  |                |          |               | -         |   |             | -         |              |
|       | 110         | $\dashv$     |               | <u>-</u>  | $\dashv$     |   | -            |                  | -              | -        | <del></del> - | +         |   |             | $\dagger$ |              |
|       | 112         |              |               |           |              |   |              |                  |                |          | ,             |           |   |             |           |              |
|       | 113         |              |               | _         |              |   | -            |                  | _              | _        |               | -         |   | -           | +         | _            |
|       | 114<br>115  |              |               | -         | $\dashv$     |   | +            | •                |                |          |               | +         |   |             | +         | $\dashv$     |
|       | 116         |              |               |           |              |   |              |                  |                |          |               |           |   |             |           |              |
|       | 117         |              |               |           | $\dashv$     |   | +            | · <del>-</del> · |                |          |               | +         |   | -           | +         |              |
|       | 119         |              |               |           | 1            |   | $\dagger$    |                  | -              |          | · · · · -     | $\dagger$ |   | -           | +         |              |
|       | 120         |              |               |           |              |   |              |                  |                |          |               |           |   |             |           |              |
| <br>  | 121         |              |               | -         | $\dashv$     |   | -            |                  | -              |          | ļ             | +         |   |             | -         |              |
|       | 122         |              |               |           |              |   |              |                  | -              | _        |               | +         |   |             | +         |              |
|       | 124         | ,            |               | _         |              |   |              |                  |                |          |               | 1         |   |             |           |              |
| _     | 125<br>126  |              |               | -         |              |   | +            |                  | Ļ              |          |               | +         |   | -           | $\dashv$  |              |
|       | 127         |              |               | $\dagger$ |              |   | +            |                  |                |          |               | +         |   |             |           |              |
|       | 128         |              |               |           |              |   | _            |                  | 1              |          |               |           |   |             |           |              |
| -     | 129<br>130  | ····         |               | +         |              |   |              |                  | +              |          | +             | $\dashv$  |   | +-          | -         | l            |
|       | 131         |              | <del> </del>  | +         |              |   | $\dagger$    |                  | $\dagger$      |          |               |           |   |             |           |              |
|       | 132         |              |               | 1         |              |   | ].           |                  | -              |          | -             |           |   |             |           |              |
| -     | 133<br>134  |              | ļ <u>.</u>    | -         |              | - | +            |                  | -              |          |               | -         |   | +           |           | . —          |
|       | 135         |              |               |           |              |   |              |                  |                |          |               |           |   |             |           | -            |
|       | 136         |              | -             | -         |              | ļ | 1            |                  | +              |          | ┼-            | -         |   | +           |           |              |
| -     | 137<br>138  |              | -             | ╁         |              |   | +            |                  | +              |          | +             |           |   | +-          |           |              |
|       | 139         |              |               |           |              |   |              |                  | 1              |          |               |           |   | 1           |           |              |
| -     | 140         |              |               | +         |              |   | $\downarrow$ | _                | +              |          |               | -         |   | -           |           |              |
| -     | 141         |              | -             | +         |              | - | -            |                  | +              |          | +-            |           |   | +           |           |              |
|       | 143         |              |               | +         |              |   | _            |                  | $\downarrow$   |          |               | -         |   | 1           |           |              |
|       | 144         |              | <u> </u>      | _         |              | _ | -            |                  | +              |          | -             |           |   |             |           | -            |
| -     | 145<br>146  | -            | -             | +         |              | + | +            |                  | +              |          | +             |           |   | +           |           | <del> </del> |
|       | 147         |              |               |           |              |   |              |                  |                |          |               |           |   |             |           |              |
| _     | 148         |              |               | 1         |              |   | -            |                  | _              |          | _             |           |   | _           |           | <del> </del> |
| -     | 149<br>150  | _            | 1             | +         |              |   |              |                  | $\frac{1}{2}$  |          |               |           |   |             |           |              |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)

|             |             | 10 tune 11                                  |           | (Column 2)                                  | (Column 3)       |
|-------------|-------------|---|-----------|---|------------------|
| AMENDMENT C |             | (Column 1) CLAIMS REMAINING AFTER AMENDMENT |           | HIGHEST<br>NUMBER<br>PREVIOUSLY<br>PAID FOR | PRESENT<br>EXTRA |
| EN EN       |             | AMENDMENT                                   | Minus     | **  | =                |
| ₫           | Total       | <u> </u>                                    |           |   | E                |
| 恒           | Independent |   | Minus     | *** CV A15                                  | 1                |
| ¥           | FIRST PRES  | ENTATION OF M                               | ULTIPLE D | EPENDENT CLAIM                              | A                |

RATE **10IT** TIONAL RATE FE FEE X\$18=X\$ 9= OR X80 =X40=OR +270= OR +135= TOTAL TOTAL OR. ADDIT. FEE ADDIT. FEE

<sup>\*</sup> If the entry in column 1 is less than the entry in column 2, write "0" in column 3. \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

<sup>\*\*\*</sup>If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3." The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

| <b>Application</b> | or Docket  | Number |
|--------------------|------------|--------|
| TODDIOGIO:         | 01 D001101 |        |

#### PATENT APPLICATION FEE DETERMINATION RECORD

Effective December 29, 1999

|                  | CL  |  | olumn 1)                  |  | mn 2)  | SMALL E   |                        | OR                   | OTHER<br>SMALL E  |                        |
|------------------|---|--|---------------------------|--|--|---|------------------------|----------------------|---|------------------------|
| FC               | PR  | NUMBE  | R FILED                   | NUMBER E   | EXTRA  | RATE  | FEE                    |                      | RATE  | FEE                    |
| ВА               | SIC FEE   |  |                           |  |  |   | 345.00                 | OR                   |   | 690.00                 |
| то               | TAL CLAIMS  | 9  | minus 2                   | 0= *   |  | X\$ 9=  |                        | OR                   | X\$18=  |                        |
| IND              | EPENDENT CLAIM  | 3 1  | minus 3                   | 3 = * .  |  | X39=  |                        | OR                   | X78=  |                        |
| MU               | LTIPLE DEPENDEN   | T CLAIM PR   | RESENT                    |  |  | +130=   |                        | OR                   | +260=   |                        |
| * If             | the difference in co  | olumn 1 is l   | ess than zer              | ro, enter "0" in c   | olumn 2  | TOTAL   |                        | OR                   | TOTAL   | 690                    |
|                  | CLAI  | MS AS A  | MENDED                    | - PART II  |  |   |                        | •                    | OTHER   |                        |
|                  |   | olumn 1)   | and it is a surface back. | (Column 2)   | (Column 3)   | SMALLE  | NTITY                  | OR                   | SMALL   |                        |
| ENT A            | RI RI   | CLAIMS<br>EMAINING<br>AFTER<br>IENDMENT  |                           | HIGHEST<br>NUMBER<br>PREVIOUSLY<br>PAID FOR  | PRESENT<br>EXTRA   | RATE  | ADDI-<br>TIONAL<br>FEE |                      | RATE  | ADDI-<br>TIONAL<br>FEE |
| <b>AMENDMENT</b> | Total +   |  | Minus                     | **   | =  | X\$ 9=  |                        | OR                   | X\$18=  |                        |
| AME              | Independent *   | TION OF M  | Minus                     | ***  | =  | X39=  |                        | OR                   | X78=  |                        |
|                  | FIRST PRESENTA  | TION OF MC   | JUNPLE DEP                | ENDENT CLAIM   |  | +130=   |                        | OR                   | +260=   |                        |
|                  | ्राचीत<br>वर्षुत्रकात<br>निर्माणि<br>चेत्रकार               |  |                           |  |  | TOTAL<br>ADDIT. FEE   |                        | OR                   | TOTAL<br>ADDIT. FEE   |                        |
|                  | '(C   | column 1)  |                           | (Column 2)   | (Column 3)   |   |                        |                      |   |                        |
| ENT B            | 7   | CLAIMS<br>EMAINING<br>AFTER<br>MENDMENT  |                           | HIGHEST<br>NUMBER<br>PREVIOUSLY<br>PAID FOR  | PRESENT<br>EXTRA   | RATE  | ADDI-<br>TIONAL<br>FEE |                      | RATE  | ADDI-<br>TIONAL<br>FEE |
| 200              | <del>To</del> tal *   |  | Minus                     | **   | = .  | X\$ 9=  |                        | OR                   | X\$18=  |                        |
|                  |   |  |                           |  |  |   |                        | 1                    |   |                        |
| AME              | Independent *   |  | Minus                     | ***  | ]=   | X39=  |                        | OR                   | X78=  |                        |
| AMENDMENT        | Independent * FIRST PRESENTA                                | TION OF MI   |                           |  |  | X39=<br>+130=   |                        | OR<br>OR             | X78=<br>+260=   |                        |
| AME              |   | TION OF MI   |                           |  |  | +130=<br>TOTAL  |                        | 1                    | +260=<br>TOTAL  |                        |
| AME              | FIRST PRESENTA  | TION OF MU   |                           | PENDENT CLAIM (Column 2)   |  | +130=   |                        | OR                   | +260=   |                        |
| S                | FIRST PRESENTA  |  |                           | PENDENT CLAIM  |  | +130=<br>TOTAL  | ADDI-<br>TIONAL<br>FEE | OR                   | +260=<br>TOTAL  |                        |
| S                | FIRST PRESENTA  | Column 1) CLAIMS EMAINING AFTER  |                           | (Column 2) HIGHEST NUMBER PREVIOUSLY   | (Column 3) PRESENT   | +130=<br>TOTAL<br>ADDIT. FEE                                  | TIONAL                 | OR                   | +260=<br>TOTAL<br>ADDIT. FEE                                    | ADDI-<br>TIONAL        |
| S                | FIRST PRESENTA  (C A) Total  Independent                    | Column 1) CLAIMS EMAINING AFTER MENDMENT   | Minus Minus               | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR  ***   | (Column 3) PRESENT EXTRA   | +130= TOTAL ADDIT. FEE  | TIONAL                 | OR<br>OR             | +260=<br>TOTAL<br>ADDIT. FEE<br>RATE                            | ADDI-<br>TIONAL        |
|                  | FIRST PRESENTA  (C  | Column 1) CLAIMS EMAINING AFTER MENDMENT   | Minus Minus               | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR  ***   | (Column 3) PRESENT EXTRA   | +130= TOTAL ADDIT. FEE  RATE  X\$ 9=  X39=                    | TIONAL                 | OR<br>OR<br>OR       | +260=<br>TOTAL<br>ADDIT. FEE<br>RATE<br>X\$18=<br>X78=          | ADDI-<br>TIONAL        |
| AMENDMENT C      | FIRST PRESENTA  (C A) Total  Independent                    | Column 1) CLAIMS EMAINING AFTER MENDMENT   | Minus Minus ULTIPLE DEF   | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR  ***   | (Column 3) PRESENT EXTRA =   | +130= TOTAL ADDIT. FEE  RATE  X\$ 9=  X39=  +130=             | TIONAL                 | OR<br>OR<br>OR       | +260=<br>TOTAL<br>ADDIT. FEE<br>RATE<br>X\$18=<br>X78=<br>+260= | ADDI-<br>TIONAL<br>FEE |
| - AMENDMENT C    | FIRST PRESENTA  (C)  AN  Total  Independent  FIRST PRESENTA | Column 1) CLAIMS EMAINING AFTER MENDMENT  TION OF MU is less than the Previously Pareviously Parevious | Minus Minus ULTIPLE DEF   | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR  **  ***  PENDENT CLAIM  amn 2, write "0" in column 2, write "10" in column 2, w | (Column 3) PRESENT EXTRA  = = doing 1.  column 3. can 20, enter "20." an 3, enter "3." | +130= TOTAL ADDIT. FEE  X\$ 9=  X39=  +130=  TOTAL ADDIT. FEE | TIONAL                 | OR<br>OR<br>OR<br>OR | +260= TOTAL ADDIT. FEE  X\$18=  X78=  +260=  TOTAL ADDIT. FEE   | ADDI-<br>TIONAL<br>FEE |

### 

Bib Data Sheet



## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

|            | SERIAL NUMBER<br>09/559,348   | FILING DATE<br>04/27/2000<br>RULE                    | <b>CLASS</b><br>206                    | GROU  | JP ART U<br>3728    | TINU      | DOC  | ORNEY<br>KET NO.<br>059017   |  |  |  |  |
|------------|---|--|--|---|---------------------|-----------|--|--|--|--|--|--|
|            | APPLICANTS  |  | ······································ |   |                     |           | ****   |  |  |  |  |  |
|            | Manabu Ishika   | onmatsu, Tokyo, JAPAN;<br>wa, Ichihara-shi, JAPAN;   |  |   |                     |           |  | Augraphical  |  |  |  |  |
|            | ** CONTINUING DA  | ГА *****************                                 | None sk                                |   |                     |           |  |  |  |  |  |  |
|            | ** FOREIGN APPLICATIONS ************************************  |  |  |   |                     |           |  |  |  |  |  |  |
|            | IF REQUIRED, FORI<br>** 06/29/2000  | EIGN FILING LICENSE G                                | RANTED                                 |   |                     | ,         | annen en sprageren en  | ***************************************  |  |  |  |  |
|            | Foreign Priority claimed  | ☑ yes □ no   | STATE OF                               | eni   | EETS                | ТОТА      |  | DEPENDENT  |  |  |  |  |
|            | 35 USC 119 (a-d) condition<br>met   | yes 110 111ct an                                     | ter COUNTRY                            |   | WING                | CLAIM     |  | CLAIMS   |  |  |  |  |
| ₽.<br>. == | Verified and  | Allowance  | JAPAN                                  | - division of   | 9                   | 9         | - who substitute the substitute that the subst | 1  |  |  |  |  |
|            | Acknowledged E  |  | nitials                                |   |                     |           |  |  |  |  |  |  |
|            | ADDRESS   |  |  |   |                     |           |  | about the same of  |  |  |  |  |
|            | Sughrue Mion Zinn   |  | _                                      |   |                     |           |  | Pageoria, Aug  |  |  |  |  |
|            | Macpeak & Seas PLI  | -c   |  |   |                     |           |  | Parties and the second  |  |  |  |  |
|            | 2100 Pennsylvania A   | venue NW   |  |   |                     |           |  | a de la constanta de la consta |  |  |  |  |
| -          | Washington ,DC 200  | 37-3202  |  |   |                     |           |  |  |  |  |  |  |
|            | TITLE   |  | -                                      |   | ******************* |           | *************  |  |  |  |  |  |
|            | Tray for semiconduct  | tor integrated circuit devic                         | e                                      |   |                     |           |  |  |  |  |  |  |
| r<br>K     | ALI   |  |  | Endamento<br>Olumpanento  | All Fe              | ees       |  |  |  |  |  |  |
|            |   |  |  | enumanasys  | 1.16                | Fees (Fil | ina )  |  |  |  |  |  |
|            |   |  |  |   |                     |           |  |  |  |  |  |  |
|            | FILING FEE FEES: Authority has been given in Paper  RECEIVED No to charge/credit DEPOSIT ACCOUNT  690 No for following: |  |  |   |                     |           |  |  |  |  |  |  |
| •          | 690 No.   | for following  | :                                      | no Anadasan<br>no anagigian   | <u> </u>            | Fees (Iss | sue)   |  |  |  |  |  |
|            |   |  | •                                      | орина видинали.<br>В примененти виденти в | ~                   |           |  |  |  |  |  |  |
|            |   |  |  | inggijarraa   |                     | r         |  |  |  |  |  |  |
|            |   | ·····  |  |   | <b>└</b> Cred       | ıt        |  |  |  |  |  |  |
|            |   | 19-11-11-11 19-11-11-11-11-11-11-11-11-11-11-11-11-1 |  | ,,;,,,  |                     |           |  |  |  |  |  |  |

Lof I

6/29/00

| 256  | £                        | 1014 (01. | Sti |   |   |  |
|------|--------------------------|-----------|-----|---|---|--|
|      | 714                      |           |     |   |   |  |
|      | 722                      |           |     | · | • |  |
|      | 722<br>725<br>726<br>561 |           |     |   |   |  |
| مادد | 564                      | 1019 101  | Sic |   |   |  |

(RIGHT OUTSIDE)

# PATENT APPLICATION 09559348





## **CONTENTS**

| Date Received (Incl. C. of M.)  |                 | Date Received (Incl. C. of M.) |
|---|-----------------|--------------------------------|
| or Date Mailed  |                 | or<br>Date Mailed              |
| <del></del> ×   | 42.             |                                |
| 1. Application papers.  | 43.             |                                |
| 2. Fluguer Decument 4/27/0  |                 |                                |
| 31/13/2   | 44              |                                |
| 4 4 0 0 0 0 0 0 0   | 45              |                                |
| 4128. 4 1/31 S-12-01  | 46              |                                |
| 108-18-01 108-20-01   | 47              |                                |
| my jund a los of the  | 48              |                                |
| 880 Day 101   | 49              |                                |
| 9. 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  | 50              |                                |
| 10 that the state of the state | 51              |                                |
| Motive of Klowns - H-7-01   | <b>52.</b>      |                                |
| 12.   | 53.             |                                |
| 13. <u>***</u>  | 54              |                                |
| 14.   | 55              |                                |
| 15.   | 56              |                                |
| 16.   | 57              |                                |
| 17  | 58              |                                |
| 18.   | 59              |                                |
| 19  | 60              | 7                              |
| 20  | 61              | 1                              |
| <b>21.</b>  | 62              |                                |
| 22  | 63              |                                |
| 23  | 64              |                                |
| 24  | 65              | J                              |
| 25  | 66              |                                |
| 26.   | 67.             |                                |
| 27  | 68              |                                |
| 28  |                 |                                |
|   | <sup>*</sup> 69 |                                |
| 29  | •               |                                |
| 30  |                 |                                |
| 31  |                 |                                |
| 32  | <b>73</b>       |                                |
| 33  | 74              | 1                              |
| 34  | <b>75</b>       | <u> 1</u>                      |
| 35  | 76.             |                                |
| 36  | 77              |                                |
| <b>37.</b>  | 78              |                                |
| 38  | 79              |                                |
| 39  | 80              |                                |
| 40  | 81              |                                |
| 41  |                 |                                |